

FPOE-DXG-90W

4Pair 90Watt Force Power 10 Gigabit Wide Temperature PoE++ Injector



User's Guide

FCC Certifications

This Equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received; including interference that may cause undesired operation.

CE Mark Warning

This equipment complies with the requirements relating to electromagnetic compatibility, EN 55022 class A for ITE, the essential protection requirement of Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

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Introduction

The CERIO FPOE-DXG-90W is a Passive type 4Pair 90Watt Force Power Multi Gigabit Wide Temperature PoE++ Injector. It provides 5-speed (100M/1G/2.5G/5G/10G) Ethernet connection ability. The Maximum Ethernet transmission is up to 10Gbps. It provides DC 50-57V input voltage and a reliable hardware solution for the demand of IEEE 802.3bt Class8 90Watt PoE power level PoE/PD powered devices. It provides entry-level applications, high flexibility and increased expansion capabilities, greatly simplifying the wiring process and expense. It can meet the current and future needs for ultra-high 10Gbps speed and high-power PD network equipment. It provides Industrial grade durable and reliable metal casing and wide temperature (-40° ~ 75° C) design, also supports wall-mounting installation, which can meet high-standard industrial environment network construction requirements.

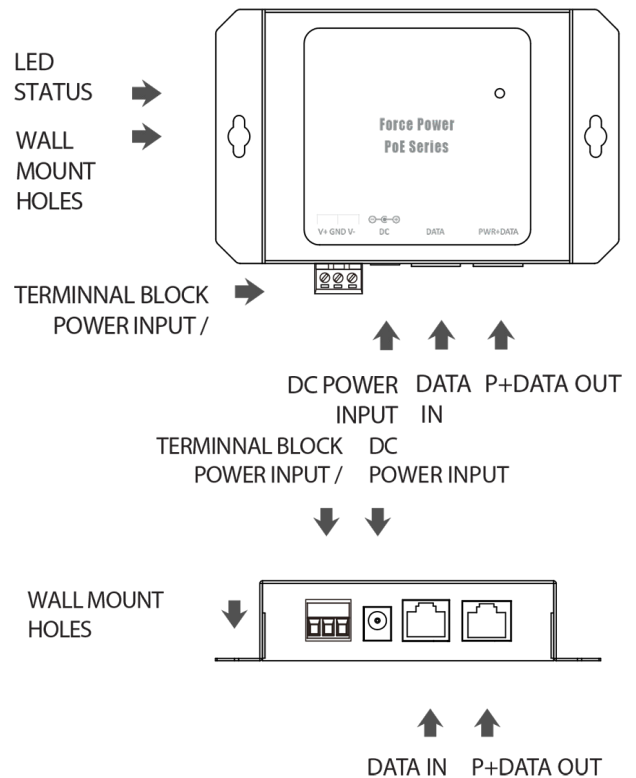
Unpacking Information

Thank you for purchasing our Force Power PoE series products. Before installation, please check that your package contains the following items.

Open the shipping cartons of the PoE Adapters and carefully unpack its contents. The carton should contain the following items:

1. FPOE-DXG Main Unit x 1
2. 90 Watt Power Adapter x 1
3. Warranty Card x 1

Hardware Overview



Notice: Cable and Power Loss

@ 100Meter : Keep power source ability (90Watt) with Cat.6a or up Cable

@ 100Meter : " 14Watt " with Cat.5e Cable

Functionality

FPOE-DXG-90W 4Pair 90Watt Force Power Multi Gigabit Wide Temperature PoE++ Injector with latest Force High Power Hardware design through 4Pair UTP Ethernet Cable to deliver both data and power to PD device, such as the latest WiFi 6 generation 802.11ax PoE WiFi AP, PoE IP Speed Dome PTZ CAM and surveillance system equipment, providing a stable high power PoE powered solution. It is also suitable for the application of vehicle power system. Ex, fixed or mobile batteries, solar or power engine combined independent power systems, etc. Supports -40° ~ 75°C wide range temperature design and plug-and-play connection provides an overall and cost-effective solution for industrial environments, car market network planning.

Highlight Features

- Complying with IEEE 802.3 10Base-T, IEEE 802.3u 100Base-TX, IEEE 802.3ab 1000Base-T, IEEE 802.3bz 2.5G/5G
- BASE-T, IEEE 802.3an 10GBASE-T standards.
- Supports 5-speed (100M/1G/2.5G/5G/10G) Ethernet connection.
- Supports PoE PSE/PD function and provides 802.3bt PoE Class8 and backward power level for PD device.
- Provides Force Power PoE++ output ability, and low cable loss, which can maintain 90Watt PoE power up to 100 meters distance.
- Provide Screw Terminal Block and DC In both Power

- Systems. User can select either one to supply power.
- Supports -40° ~ 75° C wide temperature design which can withstand various high or low temperature environmental applications.
- Over Current Protection & Short-circuit Protection.
- Supports desktop, wall mounting installation.
- CERIO FPOE-DXG-90W comes with an industrial durable and high-reliability metal case design, and supports a wide range temperature design of -40° ~ 75° C. It's durable, reliable and supports wall mounting installation, which fully meets the application requirements in various environments. The wide temperature design allows the equipment to operate stably in extremely low or extremely high temperatures, making it the best helper for enterprises.
- Durable and reliable Metal Housing and Wide Temperature Design It's durable, reliable and supports wall mounting installation, which fully meets the application requirements in various environments.
- The wide temperature design allows the equipment to operate stably in extremely low or extremely high temperatures.
- Long Distance Application : It can provide both data and power for distances of up to 100 meters (328 feet) from the power source (90Watt) and without cable loss when using CAT 6a or up cabling.
- ESD Protection : FPOE-DXG-90W supports ESD, Electro Static Discharge protection includes Over Voltage protection and Short Circuit Protection ensuring device safety.

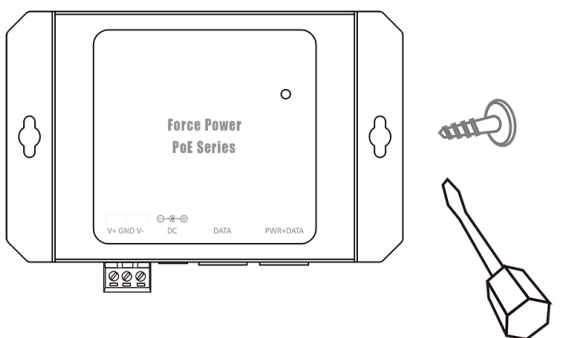
Installation

Plug-and-Play, requires no configuration. Plug in the Power Adapter into DC jack. The unit can also be powered with a 52~57V battery through 2 Pin cable plug in to the terminal block. Two RJ 45 cables: plug one in to data port, plug the other in to data+power or PoE port and connect it to the device that needs power over Ethernet cable. **Please connect the grounding at the terminal block for ESD.**



Wall mounting installation

This device can be screwed on the wall. **(The screw attachment in the package)**

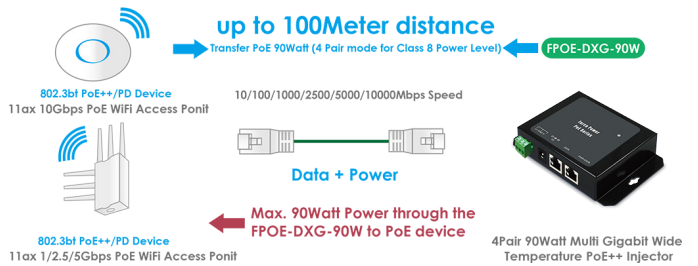


WALL MOUNTING

Product Application

Applied to PoE Output for 802.3bt/at/af Power Level Multi Giga Device

POE for 1Gigabit /2.5Gigabit /5Gigabit /10Gigabit Device



Specifications

Standards & Hardware Specifications

Standard	IEEE 802.3 10BASE-T IEEE 802.3u 100BASE-TX IEEE 802.3ab 1000BASE-T IEEE 802.3bz 2.5G/5GBASE-T IEEE 802.3an 10GBASE-T
Network Media	10BASE-T: UTP Cat. 3 or up 100BASE-TX: UTP Cat.5 or up 1G/2.5G/5GBASE-T : UTP Cat.5e or up 10GBASE-T : UTP Cat.6a or up
Data Transfer Rate	10/M/100M/1G/2.5G/5G/10Gbps (Half-duplex), 20M/200M/2G/5G/10G/20Gbps (Full-duplex)
PoE Type	Passive POE
Data Pin	PIN 1/2,3/6 & 4/5,7/8
Power Pin	End-span (Type-A): PIN 1/2,3/6 Mid-span (Type-B): PIN 4/5,7/8
Ethernet Connector	RJ-45 x1 : Power + Data RJ-45 x1 : Data
Power Interface	Output: RJ45 Passive 802.3bt PoE Out Multi Input: DC In or Screw Terminal Block In (STB In)
ESD Protection	Supports ESD (Electro Static Discharge) Over Voltage protection and Short Circuit Protection

Environmental & Mechanical Characteristics

Max Power Output	4Pair for 90Watt
Power Requirement	56V 90Watt External Power Supply
Input Voltage	50 ~ 57Volt
Cable and Power Loss	@ 100Meter : Keep power source ability (90Watt with Cat.6a or up Cable System LED: Power *1
LED	
Operating Temperature	-40° to 75° C
Storage Temperature	-40° to 85° C
Operating Humidity	5% to 90% non-condensing
Storage Humidity	5% to 90% non-condensing
Dimension(W x D x H)	130 x 82 x 27mm
Weight (g)	229g (including Screw Terminal Block)
Form Factor	Desktop/Wall mounting installation
Case material	Metal
Production Location	TW
Certifications	FCC ,CE, RoHs compatible